

Appln. Serial No. 10/509,397
Amendment dated September 18, 2007
Reply to Office Action Mailed July 20, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Currently Amended) A communication system comprising a radio unit, ~~several~~ plural
2 terminal equipments and a local administration server, wherein the radio unit comprises:
3 a first communication interface with the terminal equipments, a second
4 radiocommunication interface with a cellular network, a module for identifying a subscription to
5 the cellular network and means for transferring multiple user streams between the cellular
6 network and the respective terminal equipments through said radio unit and within the
7 framework of said subscription identified by said module, and wherein the local administration
8 server comprises means of communication with the terminal equipments, independent of the
9 cellular network, to supervise the interchanges over the first communication interface.
- 1 2. (Previously Presented) The system as claimed in claim 1, wherein a communication
2 between the local administration server and a terminal equipment is made via the radio unit.
- 1 3. (Previously Presented) The system as claimed in claim 1, wherein said first
2 communication interface is a radio interface.
- 1 4. (Previously Presented) The system as claimed in claim 1, wherein at least certain of said
2 multiple user streams between the cellular network and the respective terminal equipments are
3 simultaneous.
- 1 5. (Previously Presented) The system as claimed in claim 1, wherein at least certain of said
2 multiple user streams between the cellular network and the respective terminal equipments are
3 handled in packet mode.
- 1 6. (Previously Presented) The system as claimed in claim 1, wherein at least certain of said
2 multiple user streams between the cellular network and the respective terminal equipments are
3 handled in circuit mode.

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1 7. (Previously Presented) The system as claimed in claim 1, wherein the radio unit or the
2 terminal equipments comprise means of measuring an activity relating to the interchanges over
3 the first communication interface.

1 8. (Previously Presented) The system as claimed in claim 7, wherein the means of
2 communication between the local administration server and the terminal equipments comprise
3 means of providing a billing based on said activity measurement relating to the interchanges over
4 the first communication interface.

1 9. (Previously Presented) The system as claimed in claim 8, wherein the terminal
2 equipments comprise means of reading a payment means, information relating to the reading of
3 the payment means being transmitted to the local administration server, and wherein said billing
4 takes into account said information relating to the reading of the payment means.

1 10. (Previously Presented) The system as claimed in claim 1, wherein the means of
2 communication between the local administration server and the terminal equipments comprise
3 means of authenticating said terminal equipments.

1 11. (Previously Presented) The system as claimed in claim 1, wherein the means of
2 communication between the local administration server and the terminal equipments comprise
3 means of activating an encryption on said first communication interface.

1 12. (Previously Presented) The system as claimed in claim 1, wherein the radio unit
2 comprises means of controlling said multiple user streams between the cellular network and the
3 respective terminal equipments connected to the first interface.

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1 13. (Previously Presented) The system as claimed in claim 12, wherein said means of
2 controlling the multiple user streams comprise at least one of the following elements: means of
3 scheduling the setting up of said streams, means of managing priorities between the streams,
4 means of managing queuing for setting up said streams and means of managing service quality.

1 14. (Currently Amended) A supervision method in a communication system comprising a
2 radio unit, ~~several~~ plural terminal equipments and a local administration server, the radio unit
3 comprising a first communication interface with the terminal equipments, a second
4 radiocommunication interface with a cellular network, the method comprising:
5 identifying, by a module in the radio unit, a subscription to the cellular network;
6 transferring multiple user streams between the cellular network and the respective
7 terminal equipments through said radio unit and within the framework of said subscription
8 identified by said module; and
9 the local administration server communicating with the terminal equipments,
10 independently of the cellular network, to supervise the interchanges over the first communication
11 interface.

1 15. (Previously Presented) The method as claimed in claim 14, wherein the communication
2 between the local administration server and a terminal equipment is made via the radio unit.

1 16. (Previously Presented) The method as claimed in claim 14, wherein said first
2 communication interface is a radio interface.

1 17. (Previously Presented) The method as claimed in claim 14, wherein at least certain of
2 said multiple user streams between the cellular network and the respective terminal equipments
3 are simultaneous.

1 18. (Previously Presented) The method as claimed in claim 14, wherein at least certain of
2 said multiple user streams between the cellular network and the respective terminal equipments
3 are made in packet mode.

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1 19. (Previously Presented) The method as claimed in claim 14, wherein at least certain of
2 said multiple user streams between the cellular network and the respective terminal equipments
3 are made in circuit mode.

1 20. (Previously Presented) The method as claimed in claim 14, further comprising making a
2 measurement of an activity relating to the interchanges over the first communication interface by
3 the radio unit or by the terminal equipments.

1 21. (Previously Presented) The method as claimed in claim 20, further comprising producing
2 a bill based on said measurement of activity relating to the interchanges over the first
3 communication interface.

1 22. (Previously Presented) The method as claimed in claim 21, wherein the terminal
2 equipments include means of reading a payment means, the method further comprising
3 transmitting information relating to the reading of the payment means to the local administration
4 server, and wherein said billing takes into account said information relating to the reading of the
5 payment means.

1 23. (Previously Presented) The method as claimed in claim 14, wherein the communicating
2 between the local administration server and the terminal equipments includes authenticating said
3 terminal equipments.

1 24. (Previously Presented) The method as claimed in claim 14, wherein the communicating
2 between the local administration server and the terminal equipments includes activating an
3 encryption on said first communication interface.

1 25. (Previously Presented) The method as claimed in claim 14, further comprising
2 controlling said multiple user streams between the cellular network and the respective terminal
3 equipments connected to the first interface by the radio unit.

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1 26. (Previously Presented) The method as claimed in claim 25, wherein controlling the
2 multiple user streams includes at least one of the following: scheduling of setting up said
3 streams, managing priorities between the streams, and performing queuing for setting up said
4 streams, and managing service quality.

1 27. (Previously Presented) The system as claimed in claim 1, wherein the radio unit
2 comprises a mobile termination.

1 28. (Previously Presented) The system as claimed in claim 1, wherein the radio unit includes
2 plural different types of interfaces to communicate with different terminal equipments.

1 29. (Previously Presented) A radio unit, comprising:
2 a first communication interface to communicate with plural terminal equipments;
3 a second radio communication interface to communicate with a cellular network;
4 a subscriber identification module to identify a subscription to the cellular network; and
5 a control module for transferring multiple user streams between the cellular network and
6 the respective terminal equipments through the radio unit within a framework of the subscription
7 identified by the subscriber identification module.

1 30. (Previously Presented) The radio unit of claim 29, wherein the multiple user streams
2 comprise multiple packet data protocol (PDP) contexts.

1 31. (Previously Presented) The radio unit of claim 30, wherein the control module is
2 configured to schedule setup of the PDP contexts.

1 32. (Previously Presented) The radio unit of claim 29, further comprising a measurement
2 module to measure activity of the terminal equipments to enable billing for the activities.

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1 33. (Previously Presented) An apparatus comprising:
2 a radio unit having:
3 a first communication interface to communicate with plural terminal equipments;
4 a second radio communication interface to communicate with a cellular network;
5 a subscriber identification module to identify a subscription to the cellular
6 network;
7 a control module for transferring multiple user streams between the cellular
8 network and the respective terminal equipments through the radio unit within a framework of the
9 subscription identified by the subscriber identification module; and
10 a local administration server having an interface to communicate with the terminal
11 equipments, independent of the cellular network, to supervise the interchanges over the first
12 communication interface of the radio unit.

1 34. (Previously Presented) The apparatus of claim 33, wherein the multiple user streams
2 comprise multiple packet data protocol (PDP) contexts.

1 35. (Previously Presented) The apparatus of claim 34, wherein the control module is
2 configured to schedule setup of the PDP contexts.

1 36. (Previously Presented) The apparatus of claim 33, wherein the radio unit further
2 comprises a measurement module to measure activity of the terminal equipments to enable
3 billing for the activities.

1 37. (Previously Presented) The apparatus of claim 33, wherein said first communication
2 interface is a radio interface.